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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,571	10/24/2003	Shigeru Nemoto	244423US2	6949
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			VU, QUYNH-NHU HOANG	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3763	
			NOTIFICATION DATE	DELIVERY MODE
			10/17/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/691,571	NEMOTO, SHIGERU			
Office Action Summary	Examiner	Art Unit			
	QUYNH-NHU H. VU	3763			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on <u>02 Jules</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) 3,4,6-13 and 16-29 is 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,5,14 and 15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	r/are withdrawn from consideration	n.			
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to be a supplicated to the extended Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected to be a supplicated Replacement or declaration is objected Replacement or declaration or declaration is objected Replacement or declaration or declaration is objected Replacement or declaration or decla	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/24/03, 10/3/05 & 4/7/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, Species B (claims 1, 5, **13**, 14) in the reply filed on 7/2/08 is acknowledged.

As noted that claim 13 denotes for Fig. 13, which is non-elected species. Therefore, claim 13 will not be examined.

Because claims 5 depends on claim 2 and claim 15 depends on claim 14. Therefore, Claims 1-2, 5, 14-15 will be examined also.

Claims 3-9, 11, 16-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group I and other species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 7/2/08.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitation "quantity calculating means for calculating an injected quantity of the liquid as the area of a chart portion <u>surrounded</u> by said injection graph and said <u>horizontal axis</u>" is vague. Examiner does not understand what Applicant mean here?

Beside that, Examiner believes claim 5 denoted in Fig. 15 which is unelected Species. Examiner requests Applicant clarify about this point. If claim 5 is belonging to Fig. 15, therefore, claim 5 must be withdrawn as original election.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Bae et al. (US 6,055,985).

Bae discloses a liquid injector comprising: image displaying means for displaying a plotting chart image having a vertical axis and a horizontal axis (Figs. 1-10B). In order to make the graph image display in Figs. 1-10A, the device must be including of graph entering means for accepting an input action to enter an injection graph having chronologically changing injection conditions into the displayed plotting chart image; graph storing means for storing data of the entered injection graph, for example, it can store the data and make another two or three or many different curve or graphics in the same chart; graph displaying; graph displaying means for displaying an image of the entered injection graph whose date is stored on said displaying plotting chart image; and injection control means for controlling operation of the injection performing means in real time according to the entered injection graphs.

Regarding claim 2, a times measuring means; said image displaying means comprising means for displaying said plotting chart image whose vertical axis represents liquid injection rates and horizontal axis represent liquid injection times (Figs. 3 & 5A); said graph entering means comprising means for accepting an input action to enter said injection graph which represents a liquid injection rate at each liquid injection time into said plotting chart image; said injection control means comprising means for controlling operation of said injection performing means in real-time according to the measured time and said entered injection graph (col. 11, lines 25+).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bae et al.

Regarding claim 5, as best as understood, Bae discloses the invention substantially as claimed. Bae does not show the graphic between the quantity to be injected of liquid as horizontal axis, and the liquid injection rate as vertical axis.

Regarding claims 14-15, Bae discloses the invention substantially as claimed. Bae further discloses that the injection performing including a desired interval of an injection routine (claims 1 or 9 of Bae). As interval time, the injection routine or injection pattern must be interrupted or inactivated period. Bae does not clearly performing or entering the period for interrupting the injection of the liquid into the displayed injection graph.

Since Bea is able to bring up the date into the graphic, therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to try or modify the device of Bea with graphic as in claims 5, 14-15 into the display is for the purpose of intending use.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quynh-Nhu H. Vu whose telephone number is 571-272-3228. The examiner can normally be reached on 6:00 am to 3:00 pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas D Lucchesi/ Supervisory Patent Examiner, Art Unit 3763 Quynh-Nhu H. Vu Examiner Art Unit 3763